

0. TYPHOON TILDA (270600Z SEPTEMBER - 050600Z OCTOBER 1961)

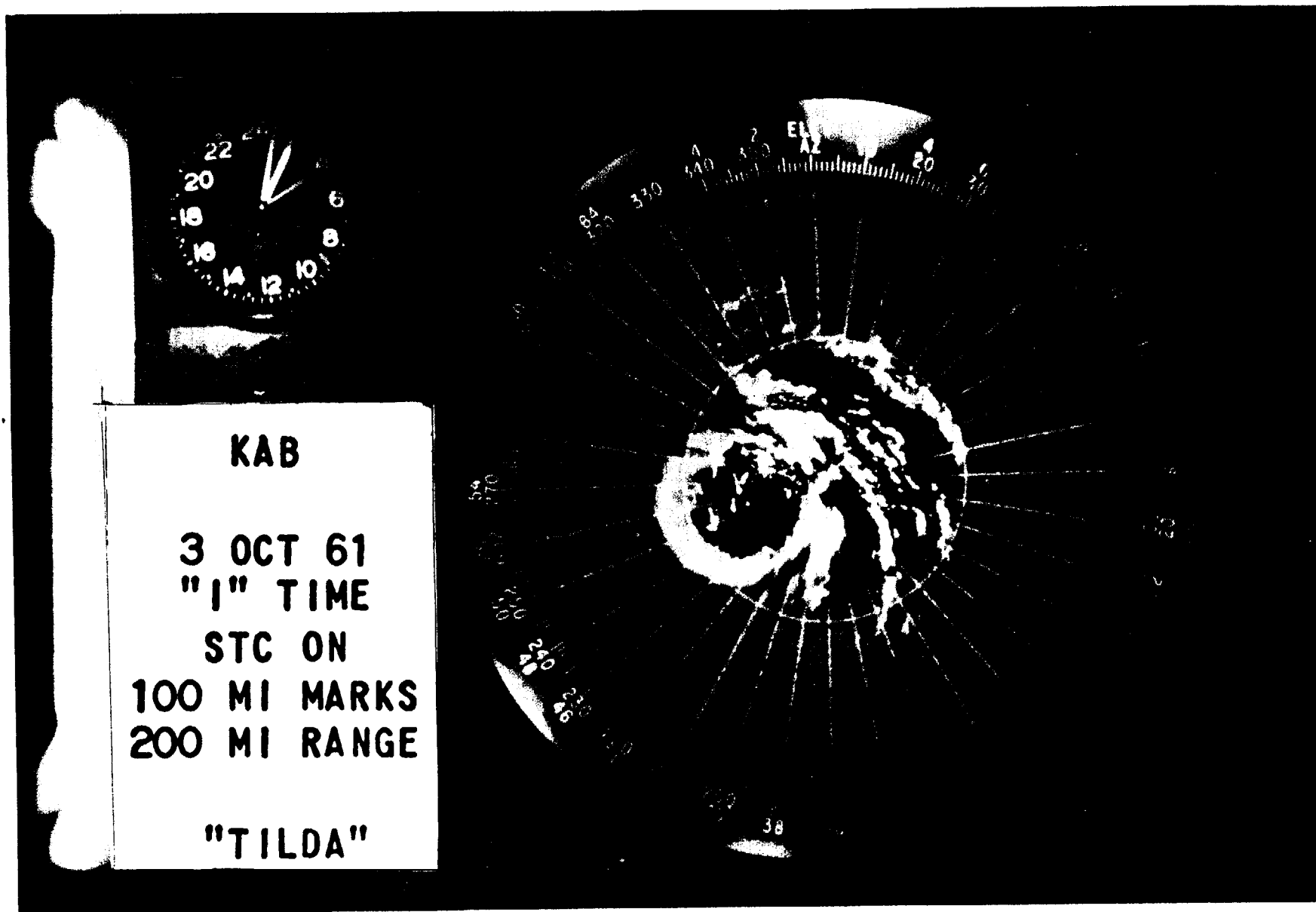
AT 260600Z A SHIP 300 MI E OF GUAM REPORTED NW SURFACE WINDS AND A 1003.5 MB SLP PROVIDING THE FIRST INDICATION OF THE CIRCULATION THAT WAS TO BECOME TYPHOON TILDA. THE CENTER BECAME MORE WELL DEFINED AND MOVED TOWARD THE WNW. THE FIRST TROPICAL DEPRESSION WARNING WAS ISSUED AT 270600Z AND THE SYSTEM WAS UPGRADED TO A TROPICAL STORM AT 271800Z. POST ANALYSIS SHOWS THAT TILDA WAS ALREADY A TROPICAL STORM AT 270600Z AND REACHED TYPHOON INTENSITY AT 271200Z.

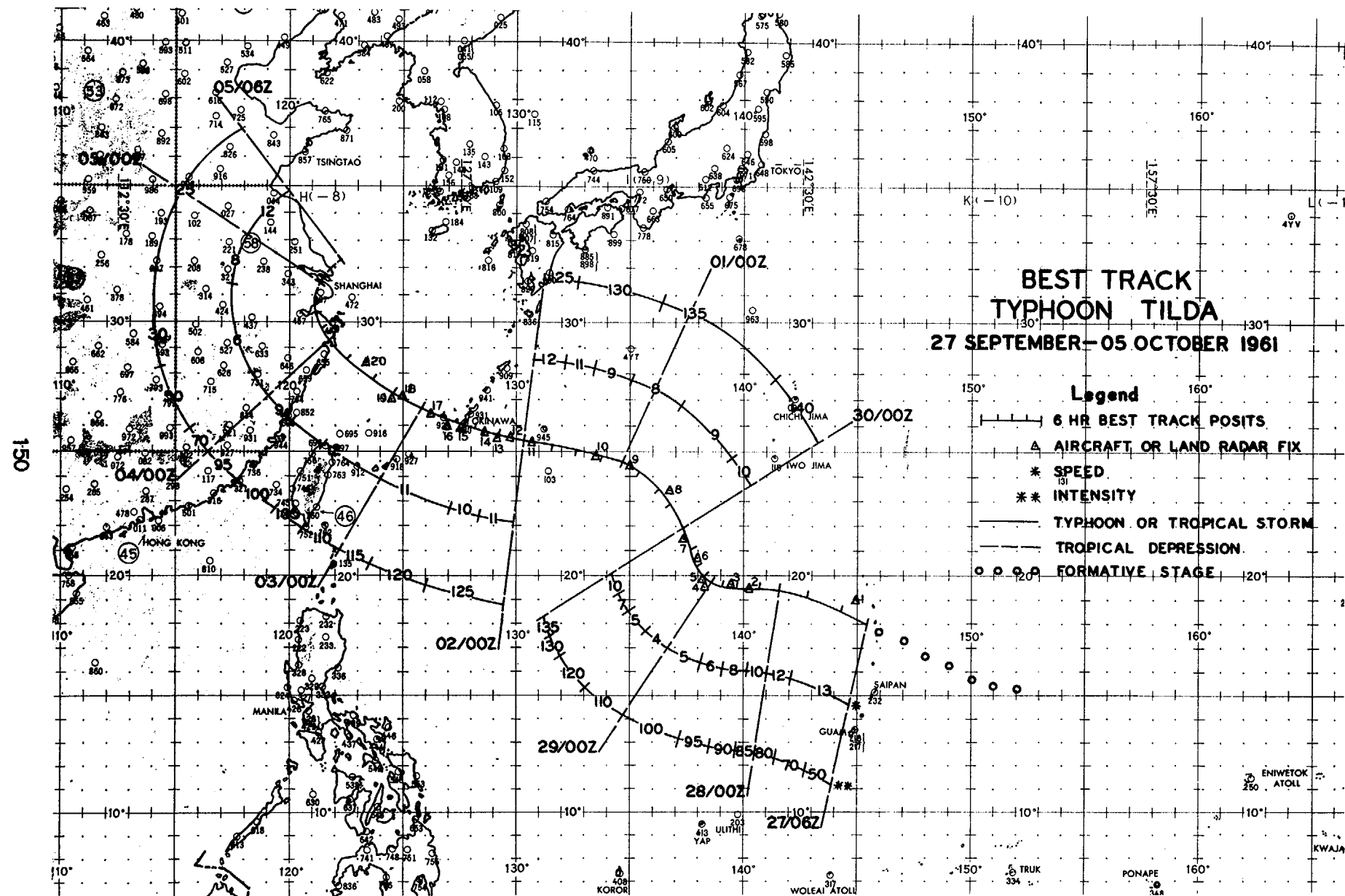
TILDA STARTED A SHARP TURN TOWARD THE N AT 290000Z AND HEADED DIRECTLY TOWARDS CENTRAL JAPAN AND AN AREA OF HIGH PRESSURE WHICH EXTENDED FROM THE SURFACE UP THROUGH 100 MB. IT WAS MANEUVERS SUCH AS THIS THAT CAUSED THE "PACIFIC STARS AND STRIPES" TO HEADLINE TILDA AS "FICKLE" AND STATE THAT SHE "ZIG-ZAGGED" HER WAY THROUGH THE PACIFIC. AS THE HIGH OVER JAPAN STARTED TO WEAKEN AND A BREAK DEVELOPED IN THE RIDGE LINE, TILDA STARTED A TURN BACK TOWARDS THE W. SHE ATTAINED HER MAXIMUM INTENSITY AT THIS TIME, REACHING 140 KTS BETWEEN 300000Z AND 301200Z. A FAST MOVING TROUGH IN THE WESTERLIES PASSED N OF TILDA AT APPROXIMATELY 301200Z, BUT APPARENTLY HAD NO EFFECT ON HER TRACK AS SHE CONTINUED TURNING TOWARD THE W. TILDA COMPLETED HER TURN AT ABOUT 010600Z AND MOVING SLIGHTLY N OF W, PASSED WITHIN 15 MI OF THE SOUTHERN TIP OF OKINAWA AT APPROXIMATELY 021400Z. KADENA WAS DIRECTLY UNDER THE WALL CLOUD AT THE TIME OF TYPHOON PASSAGE AND RECEIVED THE BRUNT OF THE TYPHOON WINDS. THE WINDS WERE 70 KTS SUSTAINED WITH PEAK GUSTS TO 108 KTS. THE SLP REACHED A MINIMUM OF 947.0 MB. NOHA, JUST INSIDE THE WALL CLOUD, HAD SUSTAINED WINDS OF 75 KTS WITH PEAK GUSTS OF 103 KTS AND A MINIMUM SLP OF 942.7 MB. SHE HAD WEAKENED SLIGHTLY, BUT STILL HAD 120 KT SURFACE WINDS AT THIS TIME. AFTER PASSING OKINAWA, TILDA STARTED A GRADUAL TURN TOWARD THE N AND CONTINUED TO SLOWLY DECREASE IN INTENSITY. SHE ENTERED THE ASIATIC MAINLAND APPROXIMATELY 100 MI S OF SHANGHAI AND STARTED TO WEAKEN RAPIDLY. SHE FINALLY CROSSED N OF THE SUBTROPICAL RIDGE LINE AND CAME UNDER THE INFLUENCE OF THE WESTERLIES. SHE THEN RECURVED SHARPLY AND EMERGED FROM THE MAINLAND JUST N OF SHANGHAI AFTER HAVING WEAKENED TO ONLY 25 KTS. THE FINAL WARNING WAS ISSUED AT 050600Z.

TILDA WAS CONSIDERED UNUSUAL BECAUSE OF HER FAILURE TO CONFORM TO CLIMATOLOGY AND HER RELUCTANCE TO FOLLOW NORMAL FORECASTING RULES. SHE TRAVELED 1775 MI IN 8 DAYS AT AN AVERAGE SPEED OF 9.2 KTS. HER MAXIMUM SPEED WAS 13 KTS FROM 270600Z TO 271800Z AND THE MINIMUM SPEED OF 4 KTS OCCURRED DURING THE ERRATIC TURN ON 29 SEPTEMBER 1961.

TILDA CAUSED DAMAGE TO OKINAWA AND POSSIBLY TO THE ASIATIC MAINLAND S OF SHANGHAI. THE TYPHOON WAS RESPONSIBLE FOR THE DEATH OF AT LEAST 11 PEOPLE, MANY INJURED AND DAMAGE IN EXCESS OF 6 MILLION DOLLARS TO CROPS, HOUSING AND EQUIPMENT, BOTH MILITARY AND CIVILIAN ON OKINAWA. A HOUSE IN NAHA WAS BLOWN FROM ITS FOUNDATIONS TO A POINT 300 FEET AWAY, KILLING THE FOUR OCCUPANTS, CERTAINLY AN EXAMPLE OF THE FURY OF TILDA. OPERATION TIEN BING (SKY SOLDIER)

WAS CALLED OFF ON TAIWAN BECAUSE OF THE TYPHOON. THE LEBANESE MERCHANT VESSEL, SHEIK, MANNED BY A GREEK CREW WENT AGROUND ON KITA DAITO SHIMA, 200 MI E OF OKINAWA AS A RESULT OF THE TYPHOON, CAUSING THE LOSS OF LIFE OF THE CAPTAIN AND ENGINEERING OFFICER. THE SHIP BROKE IN TWO BECAUSE OF THE HEAVY SEAS AFTER BEING DRIVEN AGROUND. THIS SHIP WAS JOINED A FEW DAYS LATER BY THE PIONEER MUSE, AS A RESULT OF VIOLET.





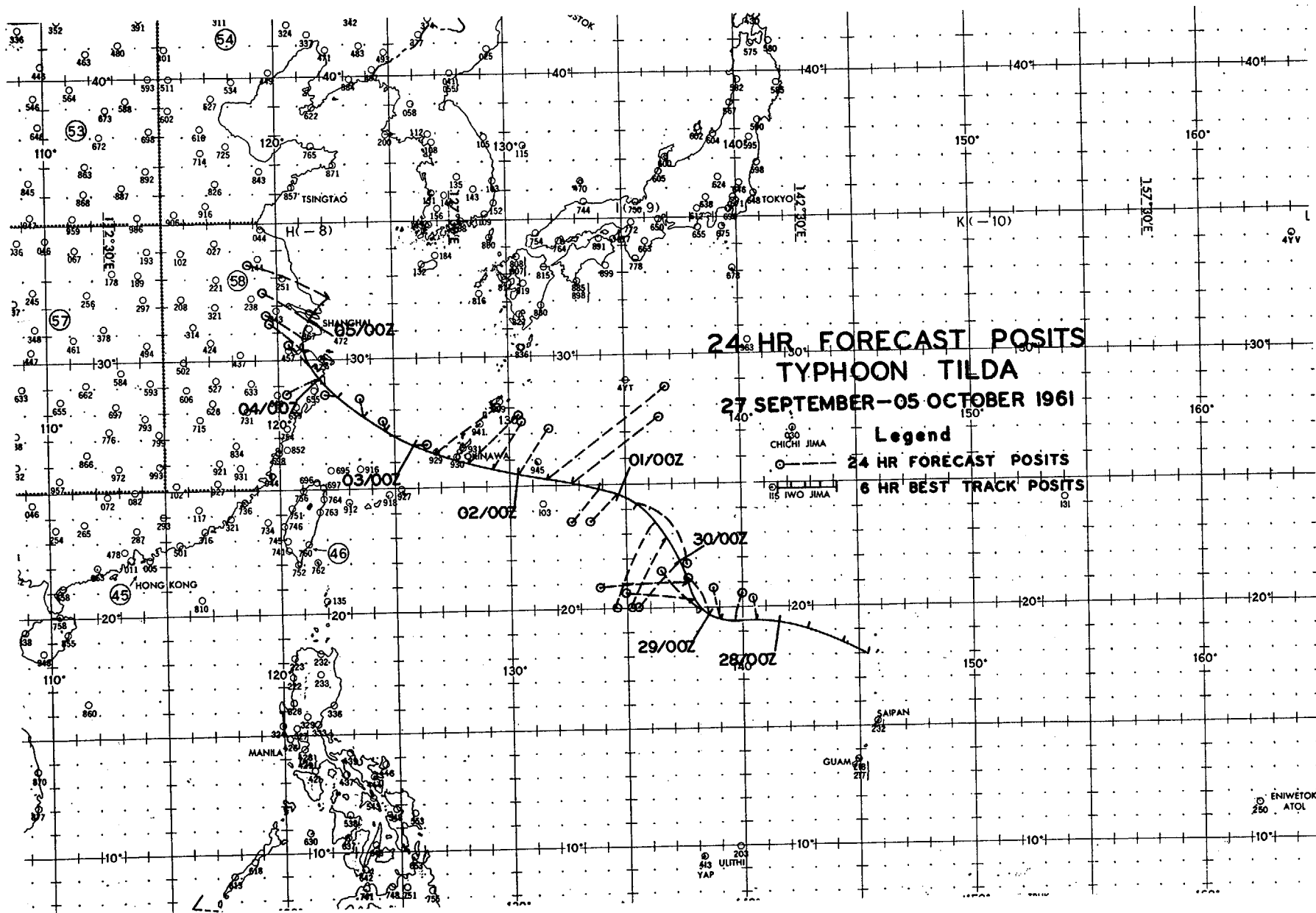
LAND RADAR AND AIRCRAFT FIXES - TYPHOON TILDA

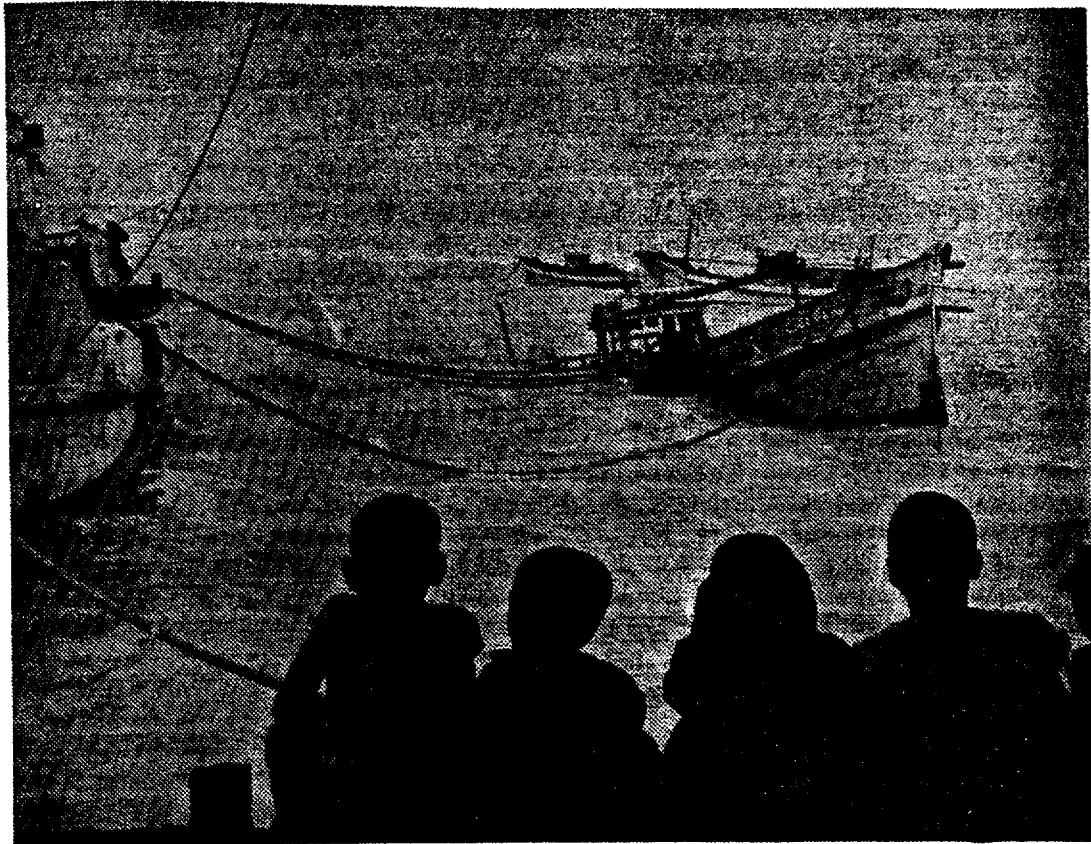
FIX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MAX SFC WND	MAX 700MB WND	MIN 700MB HGT	MIN SLP MBS	700MB T/T ₀ (°C)	EYE CHARACTERISTICS
1	270603Z	19.0N	145.0E	VAP61-P-U	---	---	----	---	-----	-----
2	280845Z	19.5N	140.2E	VW1-R-03	---	---	----	---	-----	CIRC 12 MI DIA
3	281333Z	19.7N	139.5E	US0A-R-U	---	---	----	---	-----	15 MI DIA
4	290041Z	19.5N	138.3E	VW1-P-10	---	---	----	---	-----	CIRC 14 MI DIA
5	290420Z	19.8N	138.2E	VW1-P-10	---	---	9055	---	-----	CIRC 14 MI DIA
6	291412Z	20.7N	138.0E	VW1-R-10	---	---	----	---	-----	DIA 13 MI
7	292120Z	21.6N	137.3E	56-P-01	100	---	7980	917	19/17	40 MI DIA
8	300800Z	23.4N	136.9E	VW1-R-05	---	---	----	---	-----	40 MI DIA
9	302135Z	24.5N	135.0E	VW1-R-05	---	---	----	---	-----	CIRC 37 MI DIA
10	010800Z	24.9N	133.5E	VW1-R-05	---	---	----	---	-----	30 MI DIA
11	012210Z	25.3N	130.7E	56-P-03	120	105	8240	935	16/16	CIRC 20 MI DIA
12	020300Z	25.5N	129.8E	LND/RDR	---	---	----	---	-----	-----
13	020600Z	25.6N	129.1E	LND/RDR	---	---	----	---	-----	-----
14	020900Z	25.7N	128.7E	LND/RDR	---	---	----	---	-----	-----
15	021330Z	25.9N	127.6E	LND/RDR	---	---	----	---	-----	DIA 70 MI
16	021700Z	26.0N	127.0E	LND/RDR	---	---	----	---	-----	-----
17	022230Z	26.4N	126.1E	56-P-05	70	120	8470	944	17/17	CIRC 85 MI DIA
18	030300Z	27.1N	125.0E	LND/RDR	---	---	----	---	-----	-----
19	030555Z	27.0N	124.5E	LND/RDR	---	---	----	---	-----	-----
20	031510Z	28.4N	123.2E	VW1-R-10	---	---	----	---	-----	40 MI DIA

TYPHOON TILDA 27 SEP-05 OCT 1961
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HR. ERROR	48 HR. ERROR
	LAT.	LONG.	DEG. DISTANCE	DEG. DISTANCE
270600Z	18.0N	145.4E	-----	-----
271200Z	18.6N	144.2E	-----	-----
271800Z	19.1N	142.9E	-----	-----
280000Z	19.4N	141.7E	-----	-----
280600Z	19.6N	140.7E	-----	-----
281200Z	19.6N	139.8E	-----	-----
281800Z	19.7N	139.1E	345-74	-----
290000Z	19.8N	138.6E	327-98	-----
290600Z	20.0N	138.3E	210-129	-----
291200Z	20.4N	138.0E	273-169	-----
291800Z	21.1N	137.7E	267-215	287-224
300000Z	22.0N	137.3E	223-165	276-254
300600Z	22.9N	136.8E	207-196	269-296
301200Z	23.7N	136.2E	203-239	242-295
301800Z	24.3N	135.4E	140-192	243-378
010000Z	24.6N	134.7E	222-89	217-311
010600Z	24.8N	133.8E	219-101	211-306
011200Z	25.1N	132.8E	058-256	208-309
011800Z	25.2N	131.7E	052-358	113-292
020000Z	25.4N	130.3E	037-127	236-134
020600Z	25.6N	129.1E	033-139	203-94
021200Z	25.8N	128.1E	050-170	053-720
021800Z	26.1N	126.9E	049-179	057-855
030000Z	26.5N	125.8E	063-27	056-505
030600Z	27.1N	124.7E	343-36	059-633
031200Z	27.8N	123.7E	351-35	068-520
031800Z	28.7N	122.6E	271-35	033-356
040000Z	29.3N	121.9E	245-96	112-41
040600Z	29.8N	121.5E	305-73	343-47
041200Z	30.3N	121.1E	306-97	332-62
041800Z	30.9N	120.9E	302-86	307-104
050000Z	31.6N	121.2E	301-111	260-213
050600Z	32.3N	122.2E	290-195	301-226

AVERAGE 24 HOUR ERROR 137 MI
AVERAGE 48 HOUR ERROR 312 MI





CHILDREN LOOK AT OLD SHIP THAT BATTLED TILDA AND LOST. OCTOBER 1961.
(PACIFIC STARS AND STRIPES)



VIOLENT WIND AND HEAVY RAINS BATTER OKINAWA AS TILDA PASSES OKINAWA,
OCTOBER 1961. (PACIFIC STARS AND STRIPES)